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# 41

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HARRIS, Melissa S

<120> CRYSTALLIZATION AND STRUCTURE OF STAPHYLOCOCCUS AUREUS PEPTIDE  
DEFORMYLASE

<130> 268.6317 0101

<140> 09/896,580

<141> 2001-06-29

<150> 60/215,555

<151> 2000-06-30

<160> 11

<170> PatentIn version 3.1

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<212> PRT

<213> Staphylococcus aureus

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Ile Lys Ile Arg Lys Val Gln Tyr Met Leu Thr Met Lys Asp Ile Ile  
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Arg Asp Gly His Pro Thr Leu Arg Gln Lys Ala Ala Glu Leu Glu Leu  
35 40 45

Pro Leu Thr Lys Glu Glu Lys Glu Thr Leu Ile Ala Met Arg Glu Phe  
50 55 60

Leu Val Asn Ser Gln Asp Glu Glu Ile Ala Lys Arg Tyr Gly Leu Arg  
65 70 75 80

Ser Gly Val Gly Leu Ala Ala Pro Gln Ile Asn Ile Ser Lys Arg Met  
85 90 95

Ile Ala Val Leu Ile Pro Asp Asp Gly Ser Gly Lys Ser Tyr Asp Tyr  
100 105 110

Met Leu Val Asn Pro Lys Ile Val Ser His Ser Val Gln Glu Ala Tyr  
115 120 125

Leu Pro Thr Gly Glu Gly Cys Leu Ser Val Asp Asp Asn Val Ala Gly  
130 135 140

Leu Val His Arg His Asn Lys Ile Thr Ile Lys Ala Lys Asp Ile Glu  
Page 1

145                      150                      155                      160

Gly Asn Asp Ile Gln Leu Arg Leu Lys Gly Tyr Pro Ala Ile Val Phe  
                                  165                                   170                                   175

Gln His Glu Ile Asp His Leu Asn Gly Val Met Phe Tyr Asp His Ile  
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Asp Lys Asp His Pro Leu Gln Pro His Thr Asp Ala Val Glu Val His  
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Gln His His His His  
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Asp Met Phe Glu Thr Met Tyr Ala Glu Glu Gly Ile Gly Leu Ala Ala  
                                  35                                   40                                   45

Thr Gln Val Asp Ile His Gln Arg Ile Ile Val Ile Asp Val Ser Glu  
  50                                   55                                   60

Asn Arg Asp Glu Arg Leu Val Leu Ile Asn Pro Glu Leu Leu Glu Lys  
  65                                   70                                   75                                   80

Ser Gly Glu Thr Gly Ile Glu Glu Gly Cys Leu Ser Ile Pro Glu Gln  
                                  85                                   90                                   95

Arg Ala Leu Val Pro Arg Ala Glu Lys Val Lys Ile Arg Ala Leu Asp  
                                  100                                   105                                   110

Arg Asp Gly Lys Pro Phe Glu Leu Glu Ala Asp Gly Leu Leu Ala Ile  
                                  115                                   120                                   125

Cys Ile Gln His Glu Met Asp His Leu Val Gly Lys Leu Phe Met Asp  
  130                                   135                                   140

Tyr Leu Ser Pro Leu Lys Gln Gln Arg Ile Arg Gln Lys Val Glu Lys  
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Leu Asp Arg Leu Lys Ala Arg Ala  
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Asp Asp Met Phe Asp Thr Met Tyr Gln Glu Lys Gly Ile Gly Leu Ala  
35 40 45

Ala Pro Gln Val Asp Ile Leu Gln Arg Ile Ile Thr Ile Asp Val Glu  
50 55 60

Gly Asp Lys Gln Asn Gln Phe Val Leu Ile Asn Pro Glu Ile Leu Ala  
65 70 75 80

Ser Glu Gly Glu Thr Gly Ile Glu Glu Gly Cys Leu Ser Ile Pro Gly  
85 90 95

Phe Arg Ala Leu Val Pro Arg Lys Glu Lys Val Thr Val Arg Ala Leu  
100 105 110

Asp Arg Asp Gly Lys Glu Phe Thr Leu Asp Ala Asp Gly Leu Leu Ala  
115 120 125

Ile Cys Ile Gln His Glu Ile Asp His Leu Asn Gly Ile Leu Phe Val  
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Lys Tyr Lys Lys Gln Ile Ala Lys Ser  
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Asp Asp Met Tyr Asp Thr Met Leu Glu Met Asp Gly Val Gly Leu Ala  
35 40 45

Ala Pro Gln Ile Gly Ile Leu Lys Arg Ala Ala Val Val Glu Ile Gly  
50 55 60

Asp Asp Arg Gly Arg Ile Asp Leu Val Asn Pro Glu Ile Leu Glu Lys  
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Ser Gly Glu Gln Thr Gly Ile Glu Gly Cys Leu Ser Phe Pro Asn Val  
85 90 95

Tyr Gly Asp Val Thr Arg Ala Asp Tyr Val Lys Val Arg Ala Phe Asn  
100 105 110

Arg Gln Gly Lys Pro Phe Ile Leu Glu Ala Arg Gly Phe Leu Ala Arg  
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Ala Val Gln His Glu Met Asp His Leu Asp Gly Val Leu Phe Thr Ser  
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Leu Val Leu Asp Asp Val Lys Glu Ile Asn Glu Pro Thr Lys Pro Val  
35 40 45

Gln Phe Pro Leu Asp Gln Ala Ser Leu Asp Cys Ile Ala Lys Met Met  
50 55 60

Ala Tyr Val Asp Ala Ser Tyr Asn Gly Asp Ala Glu Lys Tyr Gly Ile  
Page 4

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				90		Asn
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						Ile
						Gly
						Tyr
						Trp
						Lys
						Gln
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						Gly
						105
						Val
						Glu
						His
						Lys
						110
						Cys
						Leu
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						His
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						Gly
						Tyr
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						Asp
						Trp
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						Gln
Gln	Lys	Glu	Ile	Thr	Ile	Thr
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						Phe
						Gly
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						Leu
Gln	His	Glu	Phe	Asp	His	Leu
			180			Gln
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						185
						Arg
						Phe
						Tyr
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						His
						190
						Arg
						Ile
Asn	Pro	Leu	Asn	Pro	Leu	Phe
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						200
						Asn
						Lys
						Glu
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Asn Glu Thr Ile Thr Asp Leu Glu Gly Ser Ile Thr Leu Pro Asp Val  
85 90 95

Tyr Gly Glu Val Thr Arg Ser Lys Met Ile Val Val Glu Ser Tyr Asp  
100 105 110

Val Asn Gly Asn Lys Val Glu Leu Thr Ala His Glu Asp Val Ala Arg  
115 120 125

Met Ile Leu His Ile Ile Asp Gln Met Asn Gly Ile Pro Phe Thr Glu  
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Asn Asp Arg Ser His His His His His His  
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35 40 45

Tyr Gly Gly Val Gly Leu Ala Ala Pro Gln Ile Asn Ile Ser Lys Arg  
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Met Ile Ala Val Leu Ile Pro Asp Asp Gly Ser Gly Lys Ser Tyr Asp  
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Leu Val Asn Pro Lys Ile Val Ser Ser Val Gln Glu Ala Tyr Leu Pro  
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Thr Glu Gly Cys Leu Val Asp Asp Asn Val Ala Leu Val His Arg His  
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Asn Arg Ile Ile Lys Ala Lys Asp Ile Glu Gly Asn Asp Ile Gln Leu  
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Arg Leu Lys Gly Tyr Pro Ala Ile Val Phe Gln His Glu Ile Asp His  
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Gln Pro His Thr Asp Ala Val Glu Val His His His  
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Thr Gln Val Asp Ile His Gln Arg Ile Ile Val Ile Asp Val Ser Glu  
35 40 45

Asn Leu Ile Asn Pro Glu Leu Leu Glu Ser Gly Glu Thr Gly Ile Glu  
50 55 60

Gly Cys Leu Ile Pro Glu Gln Arg Leu Val Pro Arg Ala Glu Lys Val  
65 70 75 80

Ile Arg Ala Leu Asp Arg Asp Gly Lys Pro Phe Glu Leu Glu Ala Asp  
85 90 95

Gly Leu Ile Ala Ile Cys Ile Gln His Glu Met Asp His Leu Val Gly  
100 105 110

Lys Leu Phe Met Asp Tyr Leu Ser Pro Leu Lys Gln Gln Arg Ile Arg  
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Gln Lys Val Glu Lys Leu Asp Arg Leu Lys  
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